

### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/899,160	07/06/2001	Reinhard Joho	033275-231	9763
21839	7590 08/06/2002			
BURNS DOANE SWECKER & MATHIS L L P POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			EXAMINER	
			MOHANDESI, IRAJ A	
			ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 08/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

1	Application No.	Applicant(s)				
Office Action Summers	09/899,160	JOHO, REINHARD				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE And	Iraj A Mohandesi	2834				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	ne correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut.  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a reply bely within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	days will be considered timely.				
1) Responsive to communication(s) filed on <u>06</u>	July 2001 .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ The second is <b>FINAL</b> .	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) 4 is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>06 July 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:	•					
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applica	ation No				
<ul> <li>3. Copies of the certified copies of the prior application from the International But</li> <li>* See the attached detailed Office action for a list</li> </ul>	rity documents have been recei	ved in this National Stage				
14) Acknowledgment is made of a claim for domestic						
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	visional application has been re	eceived				
Attachment(s)	, -, -, -, -, -, -, -, -, -, -, -, -, -,	Gilardi 121.				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.9  S. Patent and Trademark Office	5) Notice of Informa	ary (PTO-413) Paper No(s) I Patent Application (PTO-152)				

Art Unit: 2834

#### **DETAILED ACTION**

### Claim Objections

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claim 4 been renumbered 3.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims1, 2,3 are rejected under 35 U.S.C. 102(b) as being anticipated by

Pannen 403 051 Switzerland patent.

**Pannen 403 051** discloses stator winding for electrical machine (page 2 line 22-23), the stator winding comprising, a stator core having slots (6,4,5, Fig. 2), two conductor bars in each of the winding slots (4,5, Fig.2), wherein one of the two conductor bar is arranged close to a boring of the winding slots and the other of two conductor bars is arranged

Art Unit: 2834

close to a slot base of the winding slots and the other of the two conductor bars comprises a plurality of strand columns or stand planes ,and the conductor bar arranged close to the boring is provided with more strand columns or planes than conductor bar arranged close to the slot base. (4,5, Fig. 2), the conductor bar close to the slot base is constructed as a single Roebel bar with two strand columns or strand planes , and the conductor bar close to the boring is provided with three or more strand columns (4,5, Fig. 2 page 1, line 61-74,page 2 line 20), wherein an effective total width of the strand columns or strand planes in both conductor bars is approximately the same (Fig.2),

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Pannen** 403 051 in view of **Umeda US Patent 5,955,810**.

**Pannen 403 051** discloses stator winding for electrical machine (page 2 line 22-23), the stator winding comprising, a stator core having slots (6,4,5, Fig. 2), two conductor bars in each of the winding slots (4,5, Fig.2), wherein one of the two conductor bar is arranged close to a boring of the winding slots and the other of two conductor bars is arranged

Art Unit: 2834

close to a slot base of the winding slots and the other of the two conductor bars comprises a plurality of strand columns or stand planes ,and the conductor bar arranged close to the boring is provided with more strand columns or planes than conductor bar arranged close to the slot base. (4,5, Fig. 2), the conductor bar close to the slot base is constructed as a single Roebel bar with two strand columns or strand planes , and the conductor bar close to the boring is provided with three or more strand columns (4,5, Fig. 2 page 1, line 61-74,page 2 line 20), wherein an effective total width of the strand columns or strand planes in both conductor bars is approximately the same (Fig.2),

However Pannen 403 051fail to teach a stator winding with two conductor bars in the winding slots wherein an effective height of the conductor bar close to the boring is at least as high as an effective height of the conductor bar close to the slot base and the effective heights of the two bars are the same, corresponding conductor bars are connected at their bar ends, at least one eye is provided for connecting all columns of the bars together, and eyes are provided for separately connecting columns of two conductor ,and the columns bar close to the slots base are separately connected to pairs of the bars close to the boring.

Umeda discloses a stator winding with two conductor bar in the winding slots, wherein an effective height of the conductor bar close to the boring is at least as high as an effective height of the conductor bar close to the slot base and the effective heights of the two bars are the same (Fig .2,3,9),and corresponding conductor bars are connected at their bar ends, at least one eye is provided for connecting all columns of the bars

Art Unit: 2834

together(Fig. 1), and eyes are provided for separately connecting columns of two conductor (Fig.3,5), and the columns bar close to the slots base are separately connected to pairs of the bars close to the boring (Fig 10,11).

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify **Pannen 403 051** stator winding with two conductor bars in the winding slots, wherein the effective heights of the two bars are the same, further corresponding conductor bars are connected at their bar ends, at least one eye is provided for connecting columns of the bars together, and eyes are provided for separately connecting columns of two conductor, and the columns bar close to the slots base are separately connected to pairs of the bars close to the boring for the purpose of heaving equal cross sections of conductor in both slots and connecting the electrical circuits of two conductor bars (upper and lower slots) together.

#### **Communication**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703)305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)872-9314 for After Final communications.

Art Unit: 2834

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

I.M July 26, 2002

MESTOR RAMINEZ

SUPERIOR PROTERT ENAMERER
1800 - ENTER 2800